

### ABSTRACT

Catalyst components for the preparation of ethylene (co)polymers capable to produce polymers with high bulk density, to avoid the problems of formation of fines and that have a high activity are provided. Said catalyst components are characterized by comprising a non-stereospecific solid catalyst component, comprising a titanium compound and a magnesium dihalide, which is pre-polymerized with an alpha olefin  $\text{CH}_2=\text{CHR}^1$  wherein R is a C1-C8 alkyl group, to such an extent that the amount of the  $\alpha$ -olefin pre-polymer is up to 100g per g of said solid catalyst component.